

Title (en)

GASEOUS COMBUSTIBLE FUEL CONTAINING SUSPENDED SOLID FUEL PARTICLES

Title (de)

GASFÖRMIGER BRENNSTOFF MIT SUSPENDIERTEN FESTEN BRENNSTOFFPARTIKELN

Title (fr)

COMBUSTIBLE GAZEUX COMBUSTIBLE CONTENANT DES PARTICULES DE COMBUSTIBLE SOLIDES EN SUSPENSION

Publication

**EP 3525915 A4 20210113 (EN)**

Application

**EP 17860550 A 20171011**

Priority

- US 201662407872 P 20161013
- US 201615345170 A 20161107
- US 2017056059 W 20171011

Abstract (en)

[origin: US2018105760A1] A gaseous combustible fuel includes a gaseous hydrocarbon fuel feedstock and solid fuel particles suspended in the gaseous hydrocarbon fuel feedstock. The solid fuel particles have a sufficiently small particle size so that they remain suspended during transportation. The hydrocarbon fuel feedstock may include natural gas, ethane, propane, butane, and gaseous derivatives and mixtures thereof. The solid fuel particles may include coal-derived solid carbonaceous matter. Other examples of solid fuel particles include biomass, refined bioproducts, and combustible polymer particles. The gaseous combustible fuel has an energy density at atmospheric pressure which is at least 25% greater than the volumetric energy density of the gaseous hydrocarbon fuel feedstock. Improvements in volumetric energy density of 50%, 100%, and even 500% are disclosed. The gaseous combustible fuel may be pressurized to a pressure in the range from 2 to 100 atmospheres.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [X] CN 103205294 A 20130717 - CHIEN SHIUNG INST TECHNOLOGY
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- [IY] DE 102014216336 A1 20160218 - KÜTTNER HOLDING GMBH & CO KG [DE]
- [Y] EP 0348008 A1 19891227 - SHELL INT RESEARCH [NL]
- See also references of WO 2018071485A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 11377612 B2 20220705**; **US 2018105760 A1 20180419**; AU 2017344079 A1 20190530; BR 112019007589 A2 20190702; CA 3039808 A1 20180419; CN 109937082 A 20190625; CN 109937082 B 20220401; EP 3525915 A1 20190821; EP 3525915 A4 20210113; MX 2019004242 A 20190805; RU 2019113775 A 20201113; WO 2018071485 A1 20180419

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